

EXHIBIT S

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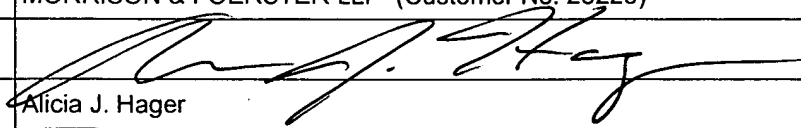
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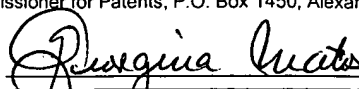
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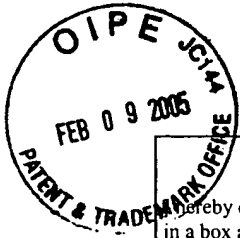
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<h1 style="text-align: center;">TRANSMITTAL FORM</h1> <p style="text-align: center;">(to be used for all correspondence after initial filing)</p>		Application Number	10/661,165
		Filing Date	September 11, 2003
		First Named Inventor	Ravinder S. DHALLAN
		Art Unit	1634
		Examiner Name	E. Whisenant
Total Number of Pages in This Submission	20 + 115 Refs.	Attorney Docket Number	543312000420

ENCLOSURES (Check all that apply)		
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	MORRISON & FOERSTER LLP (Customer No. 25226)		
Signature			
Printed name	Alicia J. Hager		
Date	February 9, 2005	Reg. No.	44,140

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PATENT
Docket No. 543312000420

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Dated: February 9, 2005

Georgina Matos
Georgina Matos

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Ravinder S. DHALLAN

Serial No.: 10/661,165

Filing Date: September 11, 2003

For: METHODS FOR DETECTION OF
GENETIC DISORDERS

Examiner: E. Whisenant

Group Art Unit: 1634

SUPPLEMENTAL INFORMATION DISCLOSURE

STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the foreign documents and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

BEST AVAILABLE COPY

This Supplemental Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
- ☐ A fee is required. A check in the amount of ___ is enclosed.
- ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
- ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
- ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of ___ is enclosed.
- ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

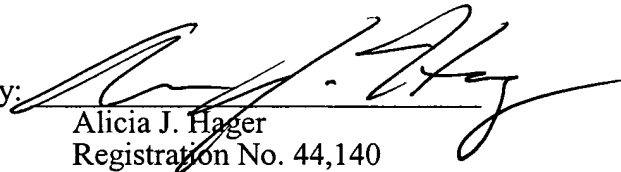
Applicant would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

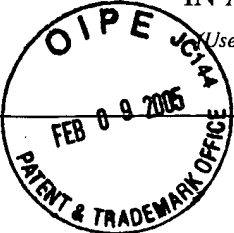
In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. §1.17(p)) is required, Applicant petitions for any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing 543312000420. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: February 9, 2005

Respectfully submitted,

By: 
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Registration No. 44,140

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary) 	Docket Number 543312000420	Application Number 10/661,165
	Applicant Ravinder S. DHALLAN	
	Filing Date September 11, 2003	Group Art Unit 1634
	Mailing Date February 9, 2005	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	12/13/2001	2001/0051341	Lo et al.			
	2.	04/18/2002	2002/0045176	Lo et al.			
	3.	03/06/2003	2003/0044388	Dennis et al.			
	4.	12/18/2003	2003/0232348	Jones et al.			
	5.	06/03/2004	2004/0106102	Dhallan			
	6.	06/04/1985	4,521,509	Benkovic et al.			
	7.	04/28/1998	5,744,301	Birkenbach et al.			
	8.	01/12/1999	5,858,671	Jones			
	9.	10/12/1999	5,965,363	Monforte et al.			
	10.	01/30/2001	6,180,372	Franzen			
	11.	07/10/2001	6,258,540	Lo et al.			
	12.	01/14/2003	6,506,561	Cheval et al.			

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Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	13.	04/26/2000	EP 0 994 963	Europe			
	14.	09/25/1996	GB 2 299 166	Great Britain			
	15.	06/13/1991	WO 91/08304	WIPO			
	16.	03/02/1995	WO 95/06137	WIPO			
	17.	09/11/1998	WO 98/39474	WIPO			
	18.	01/17/2002	WO 02/04672	WIPO			
	19.	09/12/2003	WO 03/074740	WIPO			
	20.	12/24/2003	WO 03/106642	WIPO			
	21.	09/16/2004	WO 2004/078994	WIPO			
	22.	09/16/2004	WO 2004/079011	WIPO			

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OTHER DOCUMENTS *(including author, title, Date, Pertinent Pages, Etc.)*

Examiner Initials	Ref. No.	Title
	23.	Amicucci, P. et al. (2000). "Prenatal Diagnosis of Myotonic Dystrophy Using Fetal DNA Obtained from Maternal Plasma," <i>Clinical Chemistry</i> 46(2):301-302.
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		Filing Date September 11, 2003	Group Art Unit 1634
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	34.	Bianchi, D.W. (December 1995). "Prenatal Diagnosis by Analysis of Fetal Cells in Maternal Blood," <i>The Journal of Pediatrics</i> 127(6):847-856.	
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	62.	International Search Report mailed on July 17, 2003, for PCT Patent Application No. PCT/US03/06376 filed on February 28, 2003, 4 pages.	
	63.	Kamm, R.C. et al. (1972). "Nucleic Acid Concentrations in Normal Human Plasma," <i>Clinical Chemistry</i> 18(6):519-522.	
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	65.	Kang, A. et al. (1999). "Fetal Cells in Maternal Blood: Their Role in Non-Invasive Prenatal Diagnosis and in the Etiology of Certain Diseases," ("Fetale Zellen im mütterlichen Blut - ihre Bedeutung für eine nicht-invasive pränatale Diagnostik und bei der Ätiologie bestimmter Erkrankungen,") <i>Schweiz Med. Wochenschr</i> 129:1470-1743. English Translation and original language article.	
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	66.	Kuo, P-L. (1999). "Fetal Cell Isolation From Maternal Blood - Clinical and Biological Implications," <i>Adv. Obstet. Perinatol.</i> 10(1):15-24.	
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	80.	Lo, Y.M.D. (June 2001). "Fetal DNA in Maternal Plasma: Application to Non-Invasive Blood Group Genotyping of the Fetus," <i>Transfus. Clin. Biol.</i> 8(3):306-310.	
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82.	Lo, Y.M.D. et al. (June 16, 1990). "Detection of Single-Copy Fetal DNA Sequence From Maternal Blood," <i>The Lancet</i> 335:1463-1464.
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Form PTO-1449		Docket Number 543312000420	Application Number 10/661,165
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Applicant Ravinder S. DHALLAN	
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